Amendment A

Inventor(s) Name: Alan Smithies Attorney Docket No.: 15880-10003

CLAIM AMENDMENTS

IN THE CLAIMS:

- 1. (currently amended) A filter medium for use in a filtering application at an application temperature, the filter medium comprising:
 - a <u>polymer</u> substrate capable of retaining a physical structure at the application temperature; and
 - a polyimide based stiffening agent consisting of a polyimide adapted for treating the polymer substrate.
- 2. (cancelled)
- 3. (currently amended) The filter medium of claim [[2]] 1 wherein the polymer substrate is selected from the group consisting of polyarylene sulfides, aramides, polyimides, acrylics, pre-oxidized acrylics and mixtures thereof.
- 4. (original) The filter medium of claim 1 wherein the substrate comprises polyphenylene sulfide.
- 5. (original) The filter medium of claim 1 wherein the physical structure is a pleated structure.
- 6. (currently amended) The filter medium of claim 1 wherein the polyimide is selected from the group consisting of polyamid[[e]]imides, polyetherimides, and polybismaleimides and mixtures thereof.
- 7. (original) The filter medium of claim 1 wherein the polyimide based stiffening agent is about 2% to about 20% by weight of the total weight of the filter medium.
- 8. (original) The filter medium of claim 1 wherein the application temperature is greater than about 375oF.
- (currently amended) A filter medium for use in a filtering application at an application temperature, the filter medium comprising:

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- a polymer substrate capable of retaining a pleated structure at the application temperature;
- a plurality of pleats formed into the polymer substrate; and
- a polyimide based stiffening agent consisting of a polyimide adapted for treating the polymer substrate.
- 10. (original) The filter medium of claim 9 wherein the polymer substrate is selected from the group consisting of polyarylene sulfides, aramides, polyimides, acrylics, pre-oxidized acrylics and mixtures thereof.
- 11. (original) The filter medium of claim 9 wherein the polymer substrate comprises polyphenylene sulfide.
- 12. (currently amended) The filter medium of claim 9 wherein the polyimide is selected from the group consisting of polyamideimides, polyetherimides, and polybismaleimides and mixtures thereof.
- 13. (original) The filter medium of claim 9 wherein the polyimide based stiffening agent is about 2% to about 20% by weight of the total weight of the filter medium.
- 14. (original) The filter medium of claim 9 wherein the application temperature is greater than about 375oF,
- 15. (currently amended) A filter medium for use in a filtering application at an application temperature, the filter medium comprising:
 - a polymer substrate capable of retaining a pleated structure at the application temperature;
 - a plurality of pleats formed into the polymer substrate; and
 - a stiffening agent consisting of a polyamideimide based stiffening agent adapted for treating the polymer substrate.
- 16. (original) The filter medium of claim 15 wherein the polymer substrate is selected from the group consisting of polyarylene sulfides, aramides, polyimides, acrylics, pre-oxidized acrylics and mixtures thereof.

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- 17. (original) The filter medium of claim 15 wherein the polymer substrate comprises polyphenylene sulfide.
- 18. (original) The filter medium of claim 15 wherein the application temperature is greater than about 375oF.
- (withdrawn) A method of making a filter medium comprising: providing a substrate;

calendering the substrate;

providing a polyimide stiffening agent;

treating the calendered substrate with the polyimide stiffening agent; and curing the treated substrate.

- 20. (withdrawn) The method of claim 19 wherein the substrate is selected from the group consisting of polyarylene sulfides, aramides, polyimides, acrylics, pre-oxidized acrylics and mixtures thereof; and the polyimide is selected from the group consisting of polyamideimides, polyetherimides and polybismaleimides.
- 21. (withdrawn) The method of claim 19 further including pleating the treated substrate.
- 22. (withdrawn) The method of claim 19 wherein the substrate comprises polyphenylene sulfide.
- 23. (withdrawn) A method of making a filter medium comprising: providing a substrate;

calendering the substrate;

providing a polyimide stiffening agent;

treating the calendered substrate with the polyimide stiffening agent;

curing the treated substrate; and

pleating the treated substrate.

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- 24. (withdrawn) The method of claim 23 wherein the substrate is selected from the group consisting of polyarylene sulfides, aramides, polyimides, acrylics, pre-oxidized acrylics and mixtures thereof; and
 - the polyimide is selected from the group consisting of polyamideimides, polyetherimides and polybismaleimides